



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Cardinal LG Company
250 Griffin Street East
Amery, WI 54001

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Cardinal Sea-Storm™ PET Glass Interlayer

APPROVAL DOCUMENT: Drawing No. 1, titled "Cardinal Sea-Storm™ PET", Sheet 1 of 1, dated 02/23/2012, with last revision dated 08/10/2012, prepared by the manufacturer, signed and sealed by Scott Wolters, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Laminated lites under this Product Approval shall be permanently marked in a corner of the glass with: "MDCA-Sea-Storm™ PET", standing for "Miami-Dade County Approved-Sea-Storm™ PET", and the laminator's identification mark. These marks shall be applied by the individual laminator producing the finished laminated glass product containing the Sea-Storm™ PET interlayer.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **renews** NOA # 07-0831.06 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Signature]
11/07/2012

NOA No. 11-1026.06
Expiration Date: January 13, 2016
Approval Date: November 15, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 1, titled "Cardinal Sea-Storm™ PET", Sheet 1 of 1, dated 02/23/2012, with last revision dated 08/10/2012, prepared by the manufacturer, signed and sealed by Scott Wolters, P.E.

B. TESTS "Submitted under NOA # 11-1118.03"

	<u>Test report</u>	<u>Standard</u>	<u>Date</u>	<u>Signature</u>
1.	A2280.01-10-18	ASTM D1929	03/29/11	Joseph A. Reed, P.E.
2.	A2280.01-10-18	ASTM D 635	03/29/11	Joseph A. Reed, P.E.
3.	A2280.01-10-18	ASTM D 2843	03/29/11	Joseph A. Reed, P.E.
4.	A2280.01-10-18	ASTM G 155	03/29/11	Joseph A. Reed, P.E.
5.	A2280.01-10-18	ASTM G 158	03/29/11	Joseph A. Reed, P.E.

"Submitted under NOA # 10-0819.04"

	<u>Test report</u>	<u>Standard</u>	<u>Date</u>	<u>Signature</u>
6.	96177.01-106-18	ASTM G155	07/28/10	Joseph A. Reed, P.E.
7.	96177.01-106-18	ASTM C158	07/28/10	Joseph A. Reed, P.E.
8.	96177.01-106-18	ASTM D1929	07/28/10	Joseph A. Reed, P.E.
9.	96177.01-106-18	ASTM D2843	07/28/10	Joseph A. Reed, P.E.
10.	96177.01-106-18	ASTM D635	07/28/10	Joseph A. Reed, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

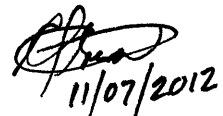
1. None.

F. STATEMENTS

1. Statement letters of code conformance to 2007 and 2010 FBC and no financial interest, issued by Wolters Engineering, dated 09/11/2012, signed and sealed by Scott Wolters, P.E.

"Submitted under NOA # 01-0206.22"

2. Letter of Authorization by DuPont – Glass Laminating Products dated 11/08/1999, signed and sealed by C. A. Smith.



11/07/2012

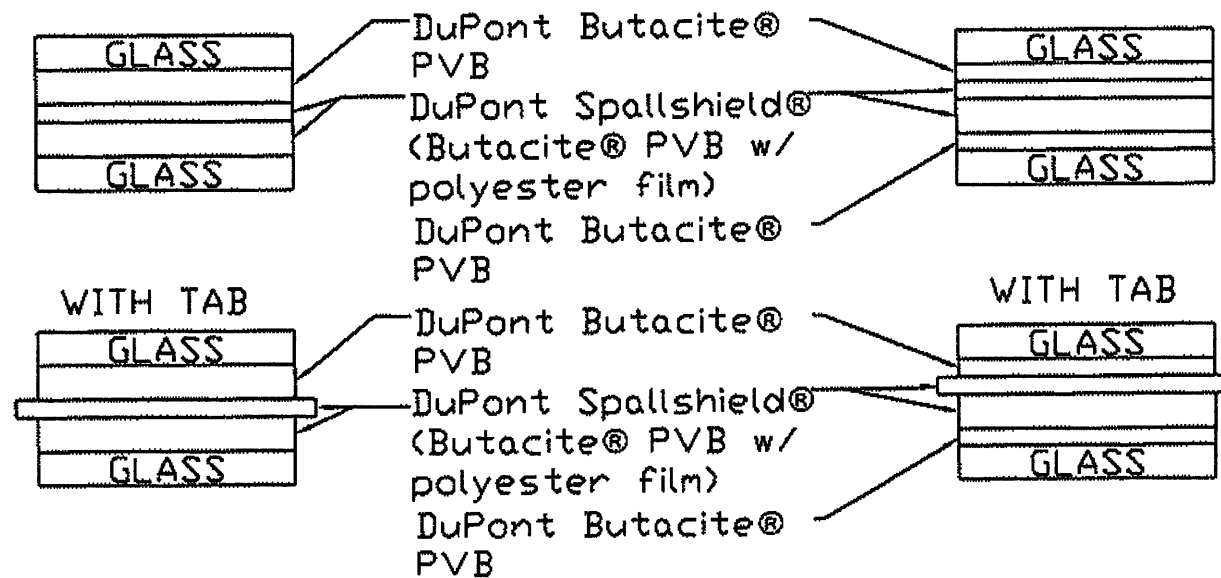
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 11-1026.06
Expiration Date: January 13, 2016
Approval Date: November 15, 2012

Cardinal Sea-Storm™ PET

DESCRIPTION

This product has a layer of PET film that is laminated between two pieces of glass using PVB interlayer material.

SEASTORM PET SECTIONS



MATERIAL CHARACTERISTICS

DuPont Spallshield® Interlayer

DESIGNATION	TEST	PROPERTIES
Flash Ignition Temperature [1]	ASTM D1929	350 °C (662 °F)
Self Ignition Temperature [1]	ASTM D1929	360 °C (680 °F)
Smoke Density Rating [1]	ASTM D2843	5.1
Average Linear Burning Rate [1]	ASTM D635	18.2 mm/ min
Flexural Strength Change [1]	ASTM C158 Method A	*Weathering
*WEATHERING PER SECTION 2612 OF THE FLORIDA BUILDING CODE	Before	After
	3537 PSI [2]	3449 PSI [2] (-2.5% Change)
*WEATHERING PER SECTION 2612 OF THE FLORIDA BUILDING CODE	2953 PSI [3]	2905 PSI [3] (-1.6% Change)

- [1] 60 mil (1.52mm) thickness DuPont Butacite® PVB Interlayer
[2] 15 mil (0.38mm) thickness DuPont Butacite® PVB Interlayer
[3] 30 mil (0.76mm) thickness DuPont Butacite® PVB Interlayer
[4] DuPont Butacite® Interlayer by itself does not comply with the Florida Building Code

DuPont Butacite® PVB Interlayer

DESIGNATION	TEST	PROPERTIES
Flash Ignition Temperature	ASTM D1929	420 °C (788 °F)
Self Ignition Temperature	ASTM D1929	420 °C (788 °F)
Smoke Density Rating	ASTM D2843	7.2
Average Linear Burning Rate	ASTM D635	0 mm/ min
Xenon Weathering (4500 hrs)	ASTM C158-02 Method A	*Weathering Flexural Strength (ASTM C158-02 Method A)
*WEATHERING PER SECTION 2612 OF THE FLORIDA BUILDING CODE	Before	After
	2940 PSI	3189 PSI

NOTE: THIS IS A COMPONENT APPROVAL AND DOES NOT INCLUDE AN EVALUATION OF STRUCTURAL PERFORMANCE OF THIS COMPONENT. SYSTEMS INCORPORATING THIS COMPONENT SHALL APPLY FOR A PRODUCT APPROVAL TO MIAMI-DADE COUNTY PRODUCT CONTROL OFFICE AND SHALL SUBMIT TEST REPORTS AND OTHER REQUIRED DOCUMENTS SHOWING THAT THE SYSTEM USING THIS COMPONENT WILL RESIST THE LOADS ACCORDING TO CHAPTER 16 OF THE 2007 AND 2010 FLORIDA BUILDING CODE.

CARDINAL LG COMPANY 250 Griffin Street East Amery, WI 54001 Phone: 715-687-0757	ENGINEER SCOTT WOLTERS
Drawing Number: 1 Sheet Number: 1 Drawing Date: 02/23/2012 Revision Date: 08/10/2012	REGISTERED PE # FL PE# 62354
For Office Use	
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 11-1026.06 Expiration Date 01/13/2016 By <i>[Signature]</i> Miami Dade Product Control	SEAL: <i>[Signature]</i> SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 5358 SW 32ND TERRACE FT. LAUDERDALE, FL 33312 PH/FAX: (954) 921-5828 9-11-12